

Experiment Number: A82327

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: 4-Nitro-o-phenylenediamine

CAS Number: 99-56-9

Date Report Requested: 09/21/2018

Time Report Requested: 06:29:45

NTP Study Number:

A82327

Study Duration:

72 Hours

Study Methodology:

Slide Scoring

Male Study Result:

Equivocal

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Date Report Requested: 09/21/2018
Time Report Requested: 06:29:45

Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	8	1.47 ± 0.52	
250.0	8	1.81 ± 0.32	0.2960
500.0	8	1.80 ± 0.56	0.2971
1000.0	7	3.14 ± 0.48	0.0144
Trend p-Value		0.0100 *	
Positive Control ²	6	6.10 ± 1.13	< 0.001 *

Trial Summary: Equivocal

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	8	1.60 ± 0.42	
250.0	8	3.01 ± 0.57	0.0298
500.0	8	2.06 ± 0.48	0.2476
1000.0	5	3.10 ± 0.71	0.0356
Trend p-Value		0.0970	
Positive Control ²	6	19.17 ± 3.17	< 0.001 *

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 72 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	8	1.82 ± 0.38	
250.0	8	2.28 ± 0.43	0.2564
500.0	8	2.66 ± 0.57	0.1285
1000.0	4	1.92 ± 0.90	0.4504
Trend p-Value		0.3730	
Positive Control ²	3	10.75 ± 2.01	< 0.001 *

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LEGEND

MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean \pm Standard Error Mean

Results were tabulated as the mean of the pooled results from all animals within a treatment group, plus or minus the standard error of the mean

Pairwise comparison to the concurrent control, dosed groups significant at $p = 0.025/\text{number of treatment groups}$; positive control value is significant at $p = 0.05$

Cochran-Armitage trend test, significant at $p = 0.025$

* Statistically significant pairwise or trend test

1: Vehicle Control: Dimethyl Sulfoxide

2: 30.0 mg/kg Dimethylbenzanthracene

**** END OF REPORT ****